

#### ABSTRACT OF THE DISCLOSURE

The present invention provides an equalizer capable of improving an equalization speed. The equalizer comprises a channel estimation unit estimating channel estimation values using a received signal inputted thereto and a generated field synchronizing signal, a filter filtering a pre-ghost and post-ghost of the received signal using the channel estimation values, wherein the filter initializes coefficients of filters thereof and updates the coefficients gradually, thereby filtering the pre and post-ghosts and an error calculation unit calculating an equalization error using an output signal from the filter unit. The filter updates the coefficients of the filters according to the equalization error and filters the pre and post-ghosts through these updated filters. The filters of the equalizer are initialized by estimating a delay profile of a received signal, thereby improving a convergence speed of equalization of an equalizer.